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are to be inferred from the condition of these organs in the adult, and thus enable us to better understand the homology between the Cephalopod and a typical Mollusk than before, as first shown by Grenacher, while Professor Brooks has discovered several additional stages which enable him to correct some of Grenacher's conclusions and to fill up the gaps in the evidence bearing on this subject. The yolk sac Professor Brooks regards as the homologue of the gasteropod foot; the arms of the Cephalopods have no homologues in the Gasteropods, but may, perhaps, be the equivalents of the "cephaloconi" of the Pteropod, *Clio*; Brooks also believes that the siphon is a structure peculiar to the Cephalopods, with no equivalent in the Gasteropods. The views of Huxley, Grenacher and Von Ihering are presented, with the author's reasons for agreeing with or dissenting from them.

SECOND REPORT OF THE U. S. ENTOMOLOGICAL COMMISSION.¹—This volume of four hundred pages gives the results of the labors of the Commission during the years 1878 and 1879. It is divided into fourteen chapters, of which the most are of a practical nature relating to the following subjects: Additions to the chronology of locust ravages; the relation of the locust and its ravages to agriculture and the settlement of the Territories; facts concerning and laws governing the migrations of locusts in all countries; habits and characteristics of locusts in all countries within the areas of permanent distribution, so far as these relate to their movements; influence of meteorological conditions on the development and migrations of locusts; the southern limits of the distribution of the Rocky Mountain locust; summary of locust flights from 1877 to 1879: locust ravages in California; and courses that may be adopted by the General Government to lessen locust injury. The more purely technical and scientific chapters are those on the histology of the locust and *Anabrus*, by Dr. C. S. Minot, illustrated with seven plates; the brain of the locust, by A. S. Packard, Jr., with seven plates; and further facts about the natural enemies of the locust, by C. V. Riley, with a colored plate. A chapter on the western cricket, often so destructive to vegetation in the Western Territories, is inserted, with an illustrated account of the internal and external anatomy of *Anabrus*; while the appendix contains the description of a number of new species of grasshoppers collected by the Commission in the West, prepared by Mr. S. H. Scudder, and illustrated with a lithographic plate.

¹ *Department of the Interior. Second Report of the U. S. Entomological Commission for the years 1878 and 1879*, relating to the Rocky Mountain Locust and the Western Cricket, and treating of the best means of subduing the locust in its permanent breeding grounds, with a view of preventing its migrations into the more fertile portions of the Trans-Mississippi country, in pursuance of appropriations made by Congress for the purpose, with maps and illustrations. CHARLES V. RILEY, A. S. PACKARD, JR., and CYRUS THOMAS, Commissioners. Washington, 1880. 8vo, pp. 322, appendix 80, with seventeen plates.

The third report of the Commission has been ordered by Congress, while a fourth upon the cotton worm and other cotton insects is in preparation. Five bulletins have appeared and three others are either in press or nearly ready for the printer. These bulletins will eventually form a volume relating entirely to practical or applied entomology.

RECENT BOOKS AND PAMPHLETS.—Ueber eine Sammlung von Fischen, welche Hr. Dr. Gerlach in Hong Kong gesamt hat. Prof. W. Peters, Akademie der Wissenschaften zu Berlin. 8vo, pp. 10, plate. Berlin, Dec. 13, 1880. From the author.

Führer durch die Geologischen Sammlungen in Museum des Königreiches Böhmen in Prag. Dr. Ant. Fric. 8vo, pp. 40. Prag, 1881. From the author.

Catalogue des Mammifères vivants, et Fossiles, Rodentia (Suite). 8vo, pp. 70. Paris, 1881. From the author.

Les Petit Mammifères de la France. Procédés pour capturer et reunir en collections les Mammifères. Par Dr. M. Trouessart. 8vo, pp. 16, plate. Paris, 1881. From the author.

On the structure and affinities of the genus *Monticulipora* and its sub-genera. With critical descriptions of illustrative species. H. Alleyne Nicholson, M.D., D.Sc., F.R.S.E., F.L.S. Royal 8vo, pp. 244, cuts, 6 plates. Bound. Edinburgh and London, 1881. From the author.

Meteorological Report, 1880, including returns for 1877, 1878, 1879, and averages for previous years. Director James Hector, M.D., C.M.G., F.R.S. Colonial Museum and Geological Survey Department. 8vo, pp. 116, plates 3. Wellington, 1881. From the author.

A Memorial of Joseph Henry. Published by order of Congress. Royal 8vo, pp. 530. Engraving. Gov. Printing Office, Washington, 1881.

Osteology of *Speotyto cunicularia*, var. *hypogæa* and of *Eremophila alpestris*. R. W. Schufeldt, Acting Assistant Surgeon U. S. Army. 8vo, pp. 66, cuts, plates 4. Department of the Interior. Gov. Printing Office, Washington. From the author.

The Rocky Mountain Locust. Permanent courses for the Government to adopt to lessen or avert Locust injury. Charles V. Riley, M.A., Ph.D. 8vo, pp. 22, maps 6. Government Printing Office, Washington, 1881. From the author.

Census Bulletin, No. 141. 4to, pp. 4. Gov. Printing Office, Washington, 1881.

Proceedings of the United States National Museum. 8vo, pp. 31. Washington, 1881.

Bulletin of the Museum of Comparative Zoology, of Harvard. Vol. VIII, No. 8. Studies of the Jelly-fishes of Narragansett bay. J. Walter Fewkes. 8vo, pp. 41, plates 10. Cambridge, 1881. From the author.

Biographical Sketch of Louis Francois de Pourtales. Alexander Agassiz. 8vo, pp. 12. Cambridge, 1881. From the author.

Geological Notes. I. Taconic system in Geology. II. The Genesis of certain Iron ores. III. The Origin of Anthracites. IV. The recent formation of Quartz and the silicification of Wood. T. Sterry Hunt, LL.D., F.R.S. 8vo, pp. 8. Montreal, Jan. 20, 1881. From the author.

“Beiträge zur Kenntniss der Flussfische Süd-amerika's (III)” und “Ichthyologische Beiträge (XI).” Director Dr. Steindacher. From the Sitzung der Mathematisch Naturwiss. Classe Akad. Vienna. Vom 5. Mai, 1881. 8vo, pp. 15. From the author.

Illustrations of the Earth's Surface. Glaciers. Nathaniel Southgate Shaler, Professor of Palæontology, and William Morris Davis, Instructor in Geology in Harvard University. 4to, pp. 200, cuts, plates xxv. Boston, 1881. From J. B. Lippincott & Co.

Bulletin of the Museum of Comparative Zoölogy at Harvard College. Vol. VIII, No. 9. List of Mammals collected by Dr. Edward Palmer in Northeastern Mexico, with field notes by the collector. By J. A. Allen. 8vo, pp. 17. Cambridge, 1881. From the publishers.